

**Test Standards & Benchmarks/Indicators**

**Test Key: M2A**  
**Mathematics 2**

v. 7.x  
Date Modified: 07/12/08  
Date Created: 08/29/03  
Demo School

**STANDARDS:**

- |  |   |
|--|---|
| <p><b>1. NUM: Number Sense, Operations</b></p> <p><b>2. MEA: Measurement</b></p> <p><b>3. GEO: Geometry &amp; Spatial Sense</b></p> <p><b>4. PAT: Patterns, Functions, Algebra</b></p> | <p><b>5. DAT: Data Analysis &amp; Probability</b></p> |
|--|---|

Ques#     **Benchmarks/Grade Level Indicators:**

- 1,26     NUM 1:[1] Use place value concepts with whole numbers
- 2,27     NUM 2:[3-4] Count money, make change, represent value of money
- 3,28     NUM 3:[5] Represent fractions using words and numerals
- 4,29     NUM 4:[6] Model, represent subtraction
- 5,30     NUM 5:[7-8] Model, represent multiplication, division
- 6,31     NUM 6:[9-10] Model use commutative property of addition; subtraction
- 7,32     NUM 7:[11] Add and subtract multiples of 10
- 8,33     NUM 8:[12] Use strategies to add, subtract 2- or 3-digit whole numbers
- 9,34     NUM 9:[13] Estimate results of whole number addition, subtraction
- 10,35    MEA 10:[1] Identify, select appropriate units for measuring
- 11,36    MEA 11:[2] Establish common referents for units of measure
- 12,37    MEA 12:[3] Compare relationships among units of measure
- 13,38    MEA 13:[4] Tell time to the nearest minute/digital, 5-min/analog
- 14,39    MEA 14:[5] Estimate, measure length, weight of common objects
- 15,40    MEA 15:[7] Make, test predictions about measurements
- 16,41    GEO 16:[1] Identify, compare, sort 3-d objects
- 17,42    GEO 17:[2] Predict new shapes from existing shapes
- 18,43    GEO 18:[3-4] Recognize 2-d shapes, 3-d objects; congruent, similar shapes
- 19,44    GEO 19:[5] Identify 2-d figures with line symmetry
- 20,45    PAT 20:[1-3] Extend simple number & object patterns
- 21,46    PAT 21:[5] Understand equivalence; extend to symbols
- 22,47    PAT 22:[6] Use symbols to represent unknown quantities (+ -)
- 23,48    DAT 23:[1-2] Collect, organize data in charts, pictures, bar graphs
- 24,49    DAT 24:[5] Identify untrue/inappropriate statements about data
- 25,50    DAT 25:[7] List/predict possible outcomes of simple experiment

**Test Standards & Benchmarks/Indicators**

**Test Key: M3A**  
**Mathematics 3**

v. 6.0

Date Modified:04/21/08

Date Created:08/12/03

Demo School

**STANDARDS:**

- 1. NUM: Number Sense, Operations**
- 2. MEA: Measurement**
- 3. GEO: Geometry & Spatial Sense**
- 4. PAT: Patterns, Functions, Algebra**

- 5. DAT: Data Analysis & Probability**

Ques#     **Benchmarks/Grade Level Indicators:**

- 1,26     NUM 1:[1] Identify, generate equivalent forms of whole numbers
- 2,27     NUM 2:[2-3]Use, compare place values in whole numbers & decimals
- 3,28     NUM 3:[4] Count money and make change to \$10
- 4,29     NUM 4:[5-7]Represent, compare fractions & mixed numbers
- 5,30     NUM 5:[8-9]Represent, explain multiplication & division
- 6,31     NUM 6:[10-11]Use relationships between operations; commutative, associative properties
- 7,32     NUM 7:[12] Add, subtract whole numbers w/wo regrouping
- 8,33     NUM 8:[13-14]Multiply, divide 2- & 3-digit by 1-digit numbers without remainders
- 9,34     NUM 9:[15] Evaluate reasonableness of computations
- 10,35    MEA 10:[1-2]Identify, select appropriate units for measuring
- 11,36    MEA 11:[3] Tell time to minute and elapsed time
- 12,37    MEA 12:[4] Read thermometer: Fahrenheit & Celsius scales
- 13,38    MEA 13:[5~7]Estimate length, weight, volume, perimeter, area
- 14,39    GEO 14:[1] Analyze, describe 2-d shapes & 3-d objects
- 15,40    GEO 15:[2] Identify relative size of angles; classify angles
- 16,41    GEO 16:[3] Find, name locations on a labeled grid
- 17,42    GEO 17:[4] Draw lines of symmetry to verify 2-d shapes
- 18,43    PAT 18:[1-3]Extend, analyze, use patterns, sequences
- 19,44    PAT 19:[4~7]Model problem situations using objects, symbols, tables
- 20,45    PAT 20:[5] Write, solve, explain simple math statements
- 21,46    PAT 21:[6] Express math equations & inequalities
- 22,47    DAT 22:[2-3]Draw, interpret picture graphs, bar graphs
- 23,48    DAT 23:[5-6]Match, translate set of data with graph, chart
- 24,49    DAT 24:[8] Identify/describe the mode of a data set
- 25,50    DAT 25:[10] Solve problems w/combinations of 2 to 4 objects

**Test Standards & Benchmarks/Indicators**

**Test Key: M4A**  
**Mathematics 4**

v. 1.9      Date Modified: 04/21/08  
Date Created: 04/24/05      Demo School

**STANDARDS:**

- |  |   |
|--|---|
| <p><b>1. NUM: Number Sense, Operations</b></p> <p><b>2. MEA: Measurement</b></p> <p><b>3. GEO: Geometry &amp; Spatial Sense</b></p> <p><b>4. PAT: Patterns, Functions, Algebra</b></p> | <p><b>5. DAT: Data Analysis &amp; Probability</b></p> |
|--|---|

Ques#      **Benchmarks/Grade Level Indicators:**

- |       |   |
|-------|---|
| 1,26  | NUM 1:[1~5]Identify, generate equivalent fractions, decimals; compare common fractions                      |
| 2,27  | NUM 2:[2-3]Use place value to compare whole numbers, decimals; round whole numbers                          |
| 3,28  | NUM 3:[4] Identify, represent factors and multiples of whole numbers, classify prime & composite numbers    |
| 4,29  | NUM 4:[6] Use associative & distributive properties to simplify and perform computations                    |
| 5,30  | NUM 5:[7-8]Recognize division may be used to solve problems, interpret remainders; count money, make        |
| 6,31  | NUM 6:[9] Estimate results of computations of whole numbers, fractions, decimals                            |
| 7,32  | NUM 7:[10] Add and subtract decimals and common fractions with like denominators                            |
| 8,33  | NUM 8:[12~14]Analyze and solve multi-step problems; demonstrate fluency w/1- & 2-digit numbers              |
| 9,34  | MEA 9:[1~5]Relate number of units to size of units used to measure; make simple unit conversions            |
| 10,35 | MEA 10:[2-3]Describe perimeter, area, volume; identify and select appropriate units to measure them         |
| 11,36 | MEA 11:[4] Find perimeter, area, volume   |
| 12,37 | MEA 12:[6] Solve, verify solutions to multi-step problems involving measurement                             |
| 13,38 | GEO 13:[1] Identify, describe intersecting, parallel, perpendicular lines & line segments                   |
| 14,39 | GEO 14:[3] Identify similarities and differences of quadrilaterals  |
| 15,40 | GEO 15:[4] Identify, define triangles based on angle measures and side lengths                              |
| 16,41 | GEO 16:[5-6]Describe points, lines, planes; specify location and plot ordered pairs on coordinate plane     |
| 17,42 | GEO 17:[7] Identify, use reflections, rotations, and translations in solving geometric problems             |
| 18,43 | PAT 18:[1-2]Use models, words to describe, extend patterns & relationships; analyze patterns using words,   |
| 19,44 | PAT 19:[3~6]Construct table of values to solve mathematical relationship; describe how one variable affects |
| 20,45 | PAT 20:[4] Use rules & variables to describe patterns and other relationships                               |
| 21,46 | PAT 21:[5] Represent mathematical relationships with equations or inequalities                              |
| 22,47 | DAT 22:[2-5]Represent and interpret data using tables, graphs, plots, Venn diagrams; compare, explain,      |
| 23,48 | DAT 23:[6-8]Describe data range, clumps, holes; identify median; use range, median, mode, to compare data   |
| 24,49 | DAT 24:[9-12]Conduct probability experiments, draw conclusions; represent likelihood of possible outcomes   |
| 25,50 | DAT 25:[13] List & count possible combinations using 1 member from several sets, containing 2 or 3 members  |

**Test Standards & Benchmarks/Indicators**

**Test Key: M5A**  
**Mathematics 5**

Date Modified: 04/21/08

v. 3.2

Date Created: 03/24/04

Demo School

**STANDARDS:**

**1. NUM: Number Sense, Operations**

**2. MEA: Measurement**

**3. GEO: Geometry & Spatial Sense**

**4. PAT: Patterns, Functions, Algebra**

**5. DAT: Data Analysis & Probability**

Ques#     **Benchmarks/Grade Level Indicators:**

- 1,26     NUM 1:[1] Use ratios and percents
- 2,27     NUM 2:[2-3]Generate equivalent fractions, decimals, percents
- 3,28     NUM 3:[4~13]Round decimals, fractions; estimate whole numbers
- 4,29     NUM 4:[5] Identify perfect squares and their roots
- 5,30     NUM 5:[6] Compare numbers less than 0 using a number line
- 6,31     NUM 6:[7-9]Solve problems using properties, order of operations
- 7,32     NUM 7:[10-12]Add and subtract fractions and decimals
- 8,33     MEA 8:[1~7]Estimate, measure benchmark angles
- 9,34     MEA 9:[3~6]Determine/use formulas for perimeter, area, volume
- 10,35    MEA 10:[4-5]Convert/compute linear, square, cubic units
- 11,36    GEO 11:[1] Relationships in circles: radius, diameter, center, pi, etc.
- 12,37    GEO 12:[2-3]Use standard language to describe geometric parts
- 13,38    GEO 13:[4] Use properties of congruent figures to solve problems
- 14,39    GEO 14:[5] Determine sum of interior angles of triangles & quadrilaterals
- 15,40    GEO 15:[6] Use coordinate system to include negative numbers
- 16,41    GEO 16:[8] Predict 3-d object from 2-d net
- 17,42    PAT 17:[1~3]Justify rule for a pattern or function using a variable
- 18,43    PAT 18:[4] Interpret equations and inequalities
- 19,44    PAT 19:[5] Draw conclusions/predict from graphs and tables
- 20,45    PAT 20:[6] Describe how change in variable affects values
- 21,46    DAT 21:[1-2]Read/interpret/select various tables and graphs
- 22,47    DAT 22:[3-4] Read/interpret complex data displays
- 23,48    DAT 23:[6] Determine/use range, mean, median, mode
- 24,49    DAT 24:[7] List/explain possible outcomes in a given situation
- 25,50    DAT 25:[8-9]Identify probability of events, ratio between 0 and 1

**Test Standards & Benchmarks/Indicators**

**Test Key: M6A**  
**Mathematics 6**

v. 2.3      Date Modified: 04/21/08  
Date Created: 04/24/05      Demo School

**STANDARDS:**

- |  |   |
|--|---|
| <p><b>1. NUM: Number Sense, Operations</b></p> <p><b>2. MEA: Measurement</b></p> <p><b>3. GEO: Geometry &amp; Spatial Sense</b></p> <p><b>4. PAT: Patterns, Functions, Algebra</b></p> | <p><b>5. DAT: Data Analysis &amp; Probability</b></p> |
|--|---|

Ques#      **Benchmarks/Grade Level Indicators:**

- |       |  |
|-------|--|
| 1,26  | NUM 1:[1-2]Compose/decompose whole numbers using factors & exponents; find/use prime factorization                 |
| 2,27  | NUM 2:[4-15]Explain/determine a specific percent of a number and solve related problems                            |
| 3,28  | NUM 3:[5-9-14]Use models to relate concepts of ratio, proportion, percent; compare, use proportional               |
| 4,29  | NUM 4:[7] Use simple expressions involving integers to represent and solve problems                                |
| 5,30  | NUM 5:[8-10] Represent multiplication, division involving fractions, decimals; fraction as a divisor               |
| 6,31  | NUM 6:[11-12]Perform fraction, decimal computations; compute with fractions and decimals                           |
| 7,32  | NUM 7:[13] Estimate reasonable solutions to problems involving fractions and decimals                              |
| 8,33  | MEA 8:[1] Understand difference between surface area and volume  |
| 9,34  | MEA 9:[2-3]Use strategies to find circumference, area of circles, sectors; estimate perimeter, circumference,      |
| 10,35 | MEA 10:[4-5]Determine which measure matches context of problem; understand difference between perimeter            |
| 11,36 | MEA 11:[6] Describe what happens to perimeter & area when measurements are changed                                 |
| 12,37 | GEO 12:[1-3]Classify, describe 2-d & 3-d figures; classify triangles   |
| 13,38 | GEO 13:[2] Use standard language to define geometric vocabulary as appropriate                                     |
| 14,39 | GEO 14:[4] Identify, define relationships between planes   |
| 15,40 | GEO 15:[5-6]Predict, describe 2-d sizes, positions, orientations after transformations; proportional relationships |
| 16,41 | GEO 16:[7] Build 3-d objects with cubes, sketch 2-d representations of each side                                   |
| 17,42 | PAT 17:[1-2]Analyze patterns, rules, functions using physical materials, tables, graphs                            |
| 18,43 | PAT 18:[3-4]Recognize, generate equivalent forms of algebraic expressions; solve simple linear equations,          |
| 19,44 | PAT 19:[5] Interpret graphs that represent the relationship between two variables                                  |
| 20,45 | PAT 20:[6] Evaluate simple expressions by replacing variables with given values, and use formulas                  |
| 21,46 | PAT 21:[7] Identify, describe constant or varying rates of change, compare them                                    |
| 22,47 | DAT 22:[1-2]Read, interpret line graphs, circle graphs, histograms; select, use appropriate graphical              |
| 23,48 | DAT 23:[3] Compare representations of the same data in different types of graphs                                   |
| 24,49 | DAT 24:[4-5]Understand measures or center and spread; describe frequency distribution in histogram or table        |
| 25,50 | DAT 25:[6] Make logical inferences from statistical data   |

**Test Standards & Benchmarks/Indicators**

**Test Key: M7A**  
**Mathematics 7**

v. 1.6      Date Modified: 04/21/08  
 Date Created: 06/17/03      Demo School

**STANDARDS:**

- |  |   |
|--|---|
| <p><b>1. NUM: Number Sense, Operations</b></p> <p><b>2. MEA: Measurement</b></p> <p><b>3. GEO: Geometry &amp; Spatial Sense</b></p> <p><b>4. PAT: Patterns, Functions, Algebra</b></p> | <p><b>5. DAT: Data Analysis &amp; Probability</b></p> |
|--|---|

Ques#      **Benchmarks/Grade Level Indicators:**

- |       |   |
|-------|---|
| 1,26  | NUM 1:[1~3]Use place values, scientific notation; rational & irrational numbers             |
| 2,27  | NUM 2:[7] Solve problems using appropriate form: fraction, decimal, percent                 |
| 3,28  | NUM 3:[4~6]Use order of operations for computation and problem solving                      |
| 4,29  | NUM 4:[5~8]Analyze and use algorithms for integers, fractions, decimals and percents        |
| 5,30  | NUM 5:[2~9]Solve problems using absolute value, exponents, square roots                     |
| 6,31  | MEA 6:[1-2]Select/convert appropriate units of measurement                                  |
| 7,32  | MEA 7:[3~5]Estimate measurement; choose measurement strategies                              |
| 8,33  | MEA 8:[4] Use proportional relationships and scale factors                                  |
| 9,34  | MEA 9:[6-7]Use strategies/formulas for area/volume  |
| 10,35 | MEA 10:[8-9]Differentiate between surface area and volume and how changes effect them       |
| 11,36 | GEO 11:[1~6]Use proportional reasoning and scale factors with congruent and similar figures |
| 12,37 | GEO 12:[2~4]Determine properties of 2- and 3- dimensional figures/objects                   |
| 13,38 | GEO 13:[3~5]Understand properties of triangles: side lengths, angles                        |
| 14,39 | GEO 14:[7-8]Identify line and rotation symmetries of 2-d figures                            |
| 15,40 | GEO 15:[9] Determine 3-d geometric objects from different views                             |
| 16,41 | PAT 16:[1-3]Analyze, generalize, and recognize, patterns rules, and functions               |
| 17,42 | PAT 17:[5-6]Plot linear equations and inequalities  |
| 18,43 | PAT 18:[4] Solve equations using models of inverse operations                               |
| 19,44 | PAT 19:[7] Justify equivalent and simplified forms of algebraic expressions                 |
| 20,45 | PAT 20:[8-9]Use formulas and variables in problem solving                                   |
| 21,46 | PAT 21:[10] Analyze linear and simple non-linear relationships                              |
| 22,47 | DAT 22:[1-2]Read/interpret/analyze various plots and graphs                                 |
| 23,48 | DAT 23:[3-4]Analyzing data using measures of center, spread, and graphical representations  |
| 24,49 | DAT 24:[5-6]Compare data samples & identify misuses of statistical data                     |
| 25,50 | DAT 25:[7-8]Compute probabilities of compound events & make predictions                     |

**Test Standards & Benchmarks/Indicators**

**Test Key: M8A**  
**Mathematics 8**

v. 1.7      Date Modified: 04/21/08  
Date Created: 06/17/03      Demo School

**STANDARDS:**

- |  |   |
|--|---|
| <p><b>1. NUM: Number Sense, Operations</b></p> <p><b>2. MEA: Measurement</b></p> <p><b>3. GEO: Geometry &amp; Spatial Sense</b></p> <p><b>4. PAT: Patterns, Functions, Algebra</b></p> | <p><b>5. DAT: Data Analysis &amp; Probability</b></p> |
|--|---|

Ques#      **Benchmarks/Grade Level Indicators:**

- |       |  |
|-------|--|
| 1,26  | NUM 1:[1~8]Use scientific notation between 0-1 & to + - x /  |
| 2,27  | NUM 2:[2] Recognize natural & whole numbers, integers, rational & irrational numbers                           |
| 3,28  | NUM 3:[3-4]Use order of operations to simplify expressions; use inverse and identity properties, relationships |
| 4,29  | NUM 4:[5-6]Estimate, compute, solve problems w/rational numbers  |
| 5,30  | NUM 5:[7] Find/approximate square root of integers   |
| 6,31  | MEA 6:[1-2]Compare US customary & metric units   |
| 7,32  | MEA 7:[4-5]Find surface area and volume of various figures   |
| 8,33  | MEA 8:[6-7]Solve problems w/rates, velocity, density   |
| 9,34  | MEA 9:[8] Find sum of interior/exterior angles of regular polygons   |
| 10,35 | MEA 10:[9-10]Use formulas to determine surface area & volume various figures                                   |
| 11,36 | GEO 11:[1~5]Use properties of 2-d & 3-d figures in translations  |
| 12,37 | GEO 12:[2~6]Recognize intersecting and transverse angles; nets   |
| 13,38 | GEO 13:[3] Use proportions to solve problems w/similar figures.  |
| 14,39 | GEO 14:[4] Represent/analyze shapes using coordinate geometry  |
| 15,40 | PAT 15:[1~3~7]Relate relationships to table/ graph/ symbols  |
| 16,41 | PAT 16:[2] Generalize patterns/sequences to find the nth term  |
| 17,42 | PAT 17:[8-9]Simplify/evaluate algebraic expressions; solve linear equations                                    |
| 18,43 | PAT 18:[10-11]Solve 2 by 2 systems of linear equations   |
| 19,44 | PAT 19:[12] Solve simple quadratic equations graphically   |
| 20,45 | PAT 20:[13~15]Compute/compare slope, midpoint, distance  |
| 21,46 | DAT 21:[1~6~9]Use/interpret various plots and graphs   |
| 22,47 | DAT 22:[2-3]Evaluate different graphical representations of the same data                                      |
| 23,48 | DAT 23:[4-5]Compare sets of data using measures of center & spread   |
| 24,49 | DAT 24:[10] Calculate possible outcomes for a situation  |
| 25,50 | DAT 25:[11] Demonstrate probability of various events  |

**Test Standards & Benchmarks/Indicators**

**Test Key: M9A**  
**Mathematics 9**

Date Modified:04/21/08

v. 1.8

Date Created:08/25/05

Demo School

**STANDARDS:**

**1. NUM: Number Sense, Operations**

**5. DAT: Data Analysis & Probability**

**2. MEA: Measurement**

**3. GEO: Geometry & Spatial Sense**

**4. PAT: Patterns, Functions, Algebra**

Ques#    **Benchmarks/Grade Level Indicators:**

- 1,25      NUM 1:[2] Compare equivalent forms for rational/irrational numbers
- 2,26      NUM 2:[4] Compute using real numbers
- 3,27      NUM 3:[5] Estimate solutions involving square & cube roots
- 4,28      MEA 4:[1~5]Convert rates & unit conversion
- 5,29      MEA 5:[3] Use ratio in similar 2-d & 3-d figures
- 6,30      MEA 6:[4] Use scale drawings & right angle trigonometry
- 7,31      GEO 7:[2] Apply proportions & rt.angl. trig. ratios in figures
- 8,32      GEO 8:[3] Analyze 2-d & 3-d figures in coordinate plane
- 9,33      PAT 9:[1] Define functions with ordered pairs
- 10,34     PAT 10:[2-3]Generalize patterns using function/relationships
- 11,35     PAT 11:[4] Demonstrate relationship: 0s of function, roots of equations
- 12,36     PAT 12:[6] Use equivalent forms of equations and inequalities
- 13,37     PAT 13:[8] Find linear equations that represent lines
- 14,38     PAT 14:[9] Solve/interpret 2 by 2 systems of linear equations
- 15,39     PAT 15:[10] Solve quadratic equations with real roots
- 16,40     PAT 16:[11] Add, subtract, multiply, divide monomials & polynomials
- 17,41     PAT 17:[12] Simplify rational expressions
- 18,42     PAT 18:[15] Describe how change in value of constant affects graph
- 19,43     DAT 19:[1] Describe data: univariate/bivariate & qualitative/quantitative
- 20,44     DAT 20:[2~6]Interpret/infer relationships in bivariate data
- 21,45     DAT 21:[3] Analyze/interpret frequency distributions
- 22,46     DAT 22:[7] Use counting techniques to determine possible outcomes
- 23,47     DAT 23:[8] Analyze sample space & calculate probability
- 24,48     DAT 24:[9] Identify independent/dependent events

**Test Standards & Benchmarks/Indicators**

**Test Key: M10A  
Mathematics 10**

v. 3.5

Date Modified: 04/21/08

Date Created: 11/13/03

Demo School

**STANDARDS:**

**1. NUM: Number Sense, Operations**

**2. MEA: Measurement**

**3. GEO: Geometry & Spatial Sense**

**4. PAT: Patterns, Functions, Algebra**

**5. DAT: Data Analysis & Probability**

Ques#     **Benchmarks/Grade Level Indicators:**

1,26	NUM 1: [A~I]Use scientific notation; solve problems w/exponents
2,27	NUM 2: [D]Connect representations of integers, rational & irrational numbers
3,28	NUM 3: [E]Compare, order, determine equivalent forms
4,29	NUM 4: [G~C]Estimate and compute with real numbers
5,30	NUM 5: [H]Find square roots and approximate square roots
6,31	MEA 6: [B]Use formulas for surface area, volume of 3-d objects
7,32	MEA 7: [C]Apply indirect measurement/formulas to perimeter, area
8,33	MEA 8: [D]Use proportional reasoning: triangles, rates
9,34	MEA 9: [E]Estimate, compute length, angles, area, volume
10,35	MEA 10: [F]Solve multi-step problems: money, time, temperature
11,36	GEO 11: [B]Apply properties of similar & congruent figures
12,37	GEO 12: [C]Apply angle relationships in intersecting, parallel lines
13,38	GEO 13: [D~A]Examine properties of geometric figures
14,39	GEO 14: [F]Represent, model transformations in coordinate plane
15,40	GEO 15: [I]Use right triangle relationships to determine lengths and angles
16,41	PAT 16: [A]Explain patterns and sequences to find nth term
17,42	PAT 17: [C]Translate words, table, graph, equations to other representations
18,43	PAT 18: [D]Use algebraic representations to solve problems
19,44	PAT 19: [E]Analyze, compare functions and graphs
20,45	PAT 20: [F~H]Solve/graph linear equations and inequalities
21,46	PAT 21: [G]Solve quadratic equations with real roots
22,47	DAT 22: [A]Interpret graphical displays and statistical measures
23,48	DAT 23: [D~C]Find, use measures of center and spread
24,49	DAT 24: [J~H]Compute probability of events
25,50	DAT 25: [K~E]Make predictions based on theoretical probability and experimental results